



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 29, 2013

WELL WORK PERMIT

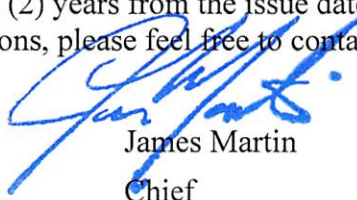
Vertical Well

This permit, API Well Number: 47-9902272, issued to ADKINS, TEDDY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: MUSICK 6
Farm Name: STEWART, BILLY G.
API Well Number: 47-9902272
Permit Type: Vertical Well
Date Issued: 08/29/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: TEDDY ADKINS 494457566 WAYNE BUTLER PRICHARD 7.5
Operator ID County District Quadrangle

2) Operator's Well Number: MUSICK #6 3) Elevation: 935'

4) Well Type: (a) Oil X or Gas _____
(b) If Gas: Production _____ / Underground Storage _____
Deep _____ / Shallow _____

5) Proposed Target Formation(s): BEREA Proposed Target Depth: 2250'
6) Proposed Total Depth: 2500' Feet Formation at Proposed Total Depth: SLATE & SHELLS
7) Approximate fresh water strata depths: 240'
8) Approximate salt water depths: 1040'

9) Approximate coal seam depths: NONE

10) Approximate void depths, (coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NO

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

PERFORATE AND FRACTURE APPROXIMATELY AS FOLLOWS:

500 GALLON ACID; 4,000 GGW; 13,000# 30/50 SAND & 175,000 SCF N₂

12 PERF HOLES

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor	10-3/4	H	32 LBS	10'	10'	
Fresh Water	8-5/8	H	24 LBS	350'	350'	100 CU. FT.
Coal						
Intermediate	7	J	20 LBS	1440'	1440'	100 CU. FT.
Production	4-1/2	N-80	11.6 LBS		2300'	110 CU. FT.
Tubing						
Liners						

Packers: Kind: _____

Sizes: _____

Depths Set _____

Office of Oil and Gas
WV Dept. of Environmental Protection

CK # 847
\$650.00

9902272

WW-2A
(Rev. 6-07)

1.) Date: AUGUST 2, 2013
2.) Operator's Well Number MUSICK #6
State 47- County 099 Permit -
3.) API Well No.: 47- 099 -

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name BILL STEWART W
Address 2238 GREENBRIER CREEK RD
FORT GAY, WV 25514
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector JEREMY JAMES
Address P. O. BOX 147
ONA, WV 25545
Telephone 304-951-2596
5) (a) Coal Operator
Name NONE
Address _____
(b) Coal Owner(s) with Declaration
Name NONE
Address _____
(c) Coal Lessee with Declaration
Name NONE
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR
X

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

X Personal Service (Affidavit attached)
_____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

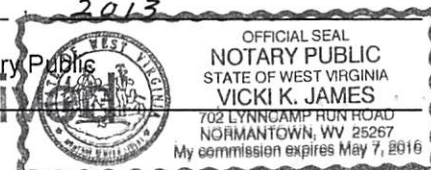
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator TEDDY ADKINS
By: Teddy Adkins
Its: OWNER
Address 14485 S CALHOUN HWY
ARNOLDSBURG, WV 25234
Telephone 304-377-1114 (CELL)

Subscribed and sworn before me this 5th day of August 2013

My Commission Expires May 7, 2016
Oil and Gas Privacy Notice

Notary Public



The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

Office of Oil and Gas
WV Dept. of Environmental Protection

9902272

WW-9
(5/13)Page 1 of 3
API Number 47 - 099
Operator's Well No. MUSICK 6STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name TEDDY ADKINS OP Code 494457566
Watershed (HUC 10) GREENBRIER CREEK Quadrangle PRICHARD
Elevation 935 County WAYNE District BUTLERDo you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No XWill a pit be used for drill cuttings? Yes X No _____If so, please describe anticipated pit waste: GELL WATER, DRILL CUTTINGS, FRESHWATERWill a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 6 MIL 20 MIL

Proposed Disposal Method For Treated Pit Wastes:

- X Land Application
____ Underground Injection (UIC Permit Number _____)
____ Reuse (at API Number _____)
____ Off Site Disposal (Supply form WW-9 for disposal location)
____ Other (Explain _____)

Will closed loop system be used? N/ADrilling medium anticipated for this well? Air, freshwater, oil based, etc. FRESHWATER

-If oil based, what type? Synthetic, petroleum, etc. _____

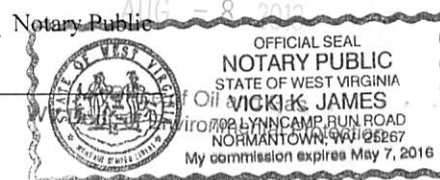
Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) DIRT

-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Teddy AdkinsCompany Official (Typed Name) TEDDY ADKINSCompany Official Title OWNERSubscribed and sworn before me this 5th day of August, 20 13Vicki K. James
My commission expires May 7, 2013

Form WW-9

Operator's Well No. MUSICK #6Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH 5.5Lime 3 Tons/acre or to correct to pH 6.5Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)Mulch HAY 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARD GRASS	25	LADINO CLOVER	5
RED TOP CLOVER	15	KY 31	40

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

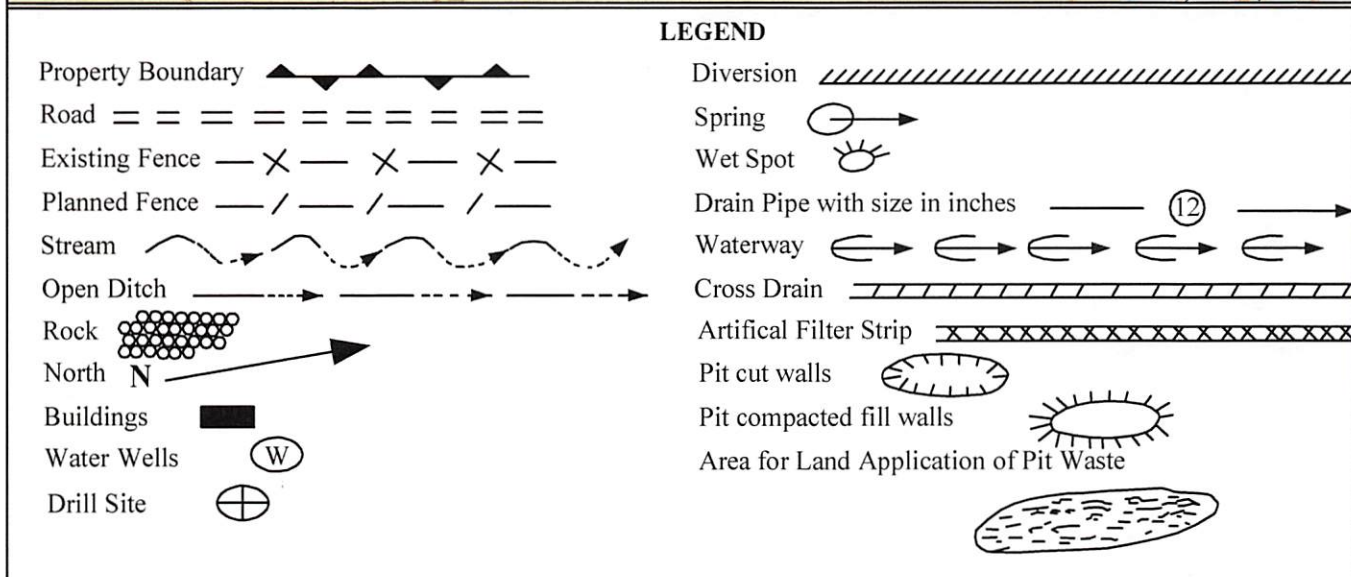
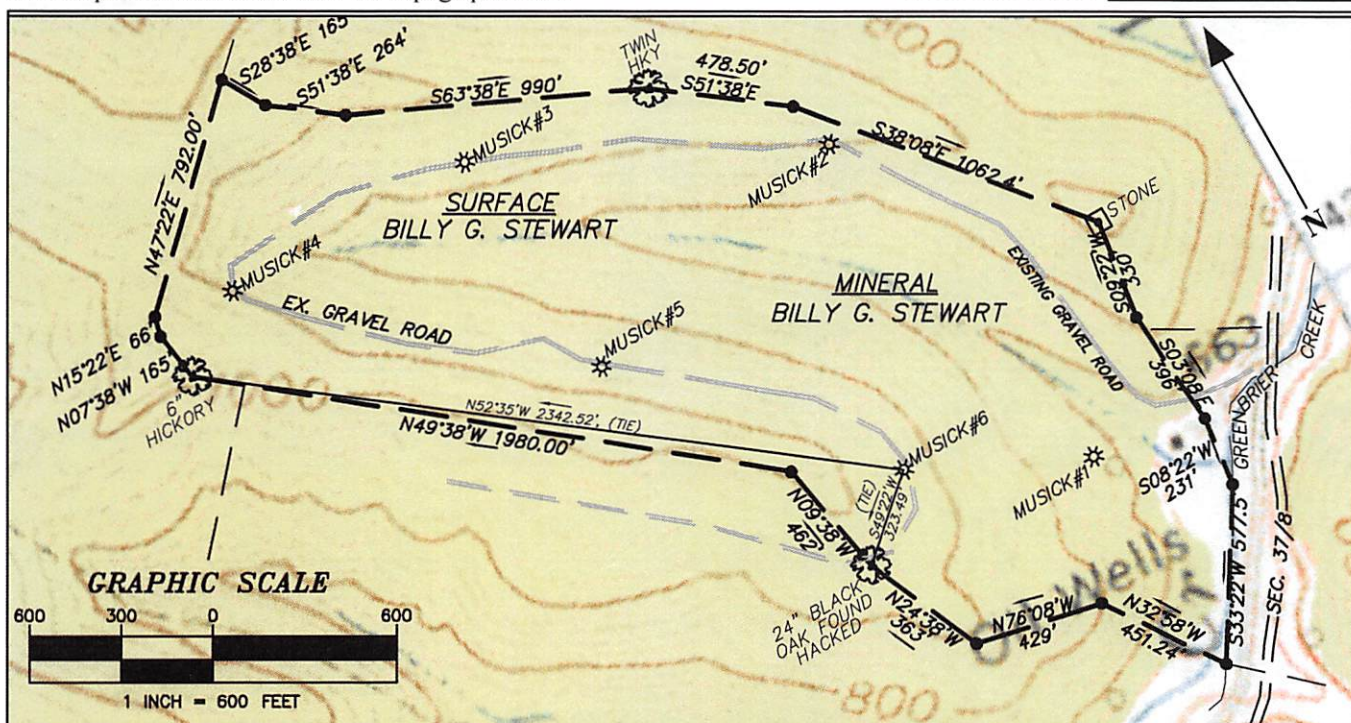
Comments:

Title: Inspector SOGDate: 8-3-88 **Received**Field Reviewed? ☒ Yes ☐ NoOffice of Oil and Gas
WV Dept. of Environmental Protection

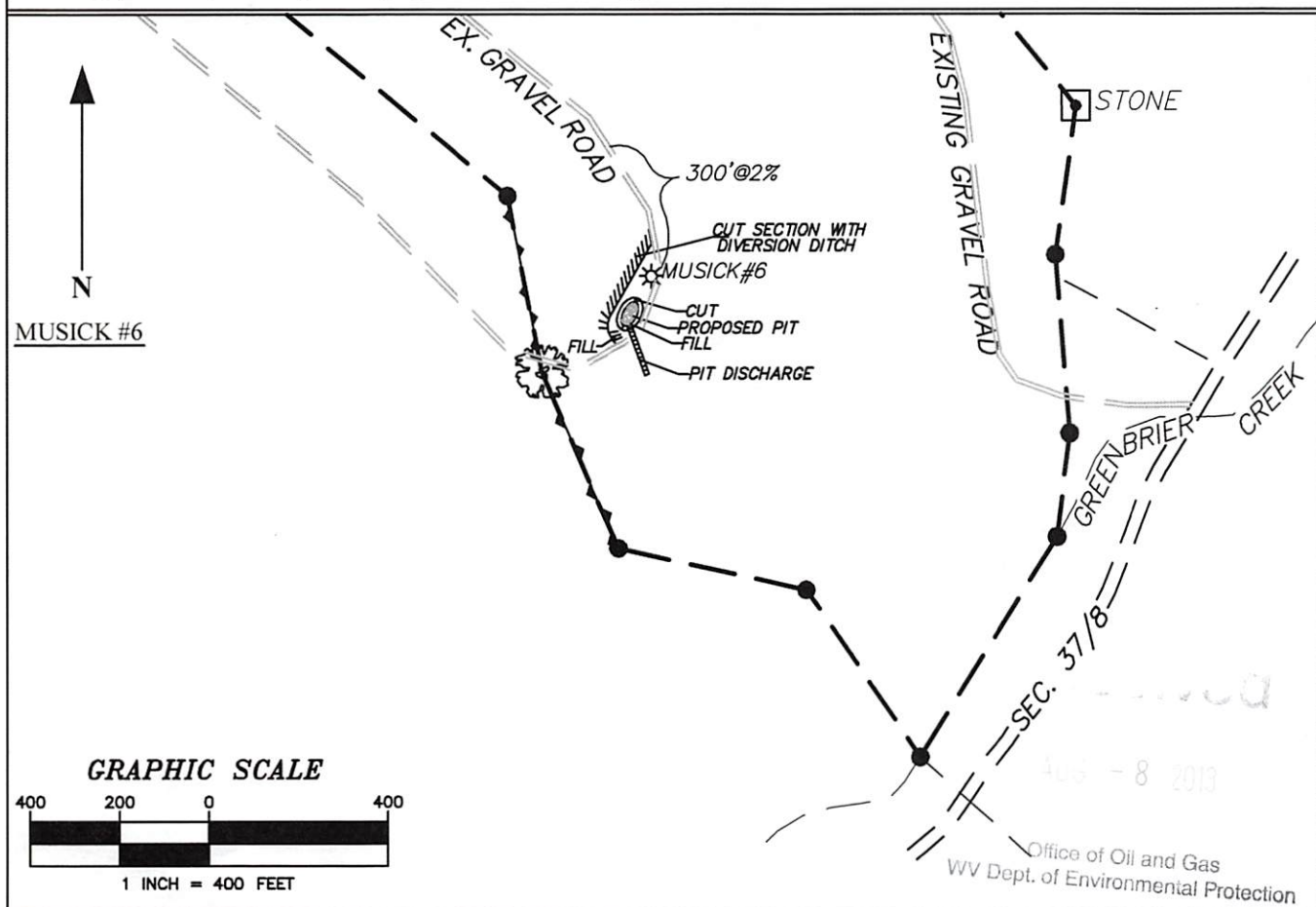
Form WW-9
Attachments:
Photocopied section of involved 7.5' topographic sheet

Operator's Well No. MUSICK 6

Quadrangle Name: PRITCHARD 7.5'



Drawing(s) of road, location, pit and proposed area for land application

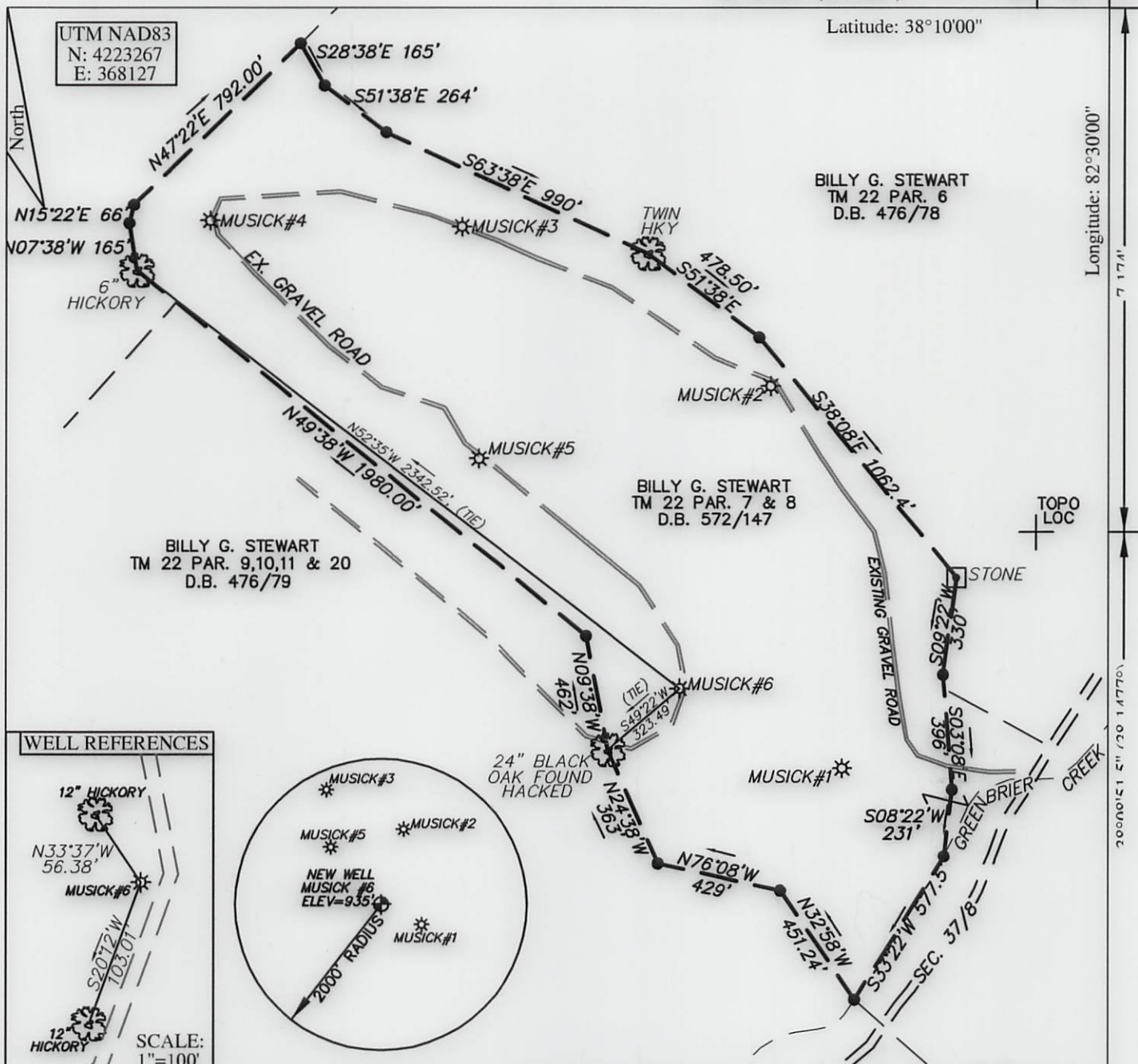



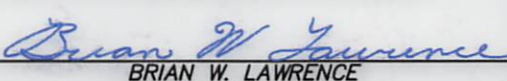
82°30'18.0" (82.5050°) 990'

Latitude: 38°10'00"

Longitude: 82°30'00"

UTM NAD83
N: 4223267
E: 368127



FILE #	13-052	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.		
DRAWING #	MUSICK#6	Signed:  BRIAN W. LAWRENCE		
SCALE	1"=500'	R.P.E.:	L.L.S.: 2056	
MINIMUM DEGREE OF ACCURACY	1 / 200			
PROVEN SOURCE OF ELEVATION	SUBMETER GPS			
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304				
Well Type: <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Waste Disposal <input checked="" type="checkbox"/> Production <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid Injection <input type="checkbox"/> Storage <input type="checkbox"/> Shallow		DATE: JULY 22ND, 2013 OPERATORS WELL #: MUSICK 6 API WELL # 47 099 02172 STATE COUNTY PERMIT		
WATERSHED GREENBRIER CREEK ELEVATION: 935				
COUNTY/DISTRICT WAYNE / BUTLER QUADRANGLE: PRICHARD 7.5'				
SURFACE OWNER BILLY G. STEWART ACREAGE 80				
OIL & GAS ROYALTY OWNER: BILLY G. STEWART ACREAGE 80				
DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY):				
TARGET FORMATION: BEREA ESTIMATED DEPTH: 2500'				
WELL OPERATOR TEDDY ADKINS Address 14485 S. CALHOUN HIGHWAY City ARNOLDSBURG State WV Zip Code 25234		DESIGNATED AGENT TED ADKINS Address 14485 S. CALHOUN HIGHWAY City ARNOLDSBURG State WV Zip Code 25234		